

IMPLEMENTATION OF THE WATERFRONT SMALL AREA PLAN

PLANNING COMMISSION HEARING
Waterfront Landscape and Flood Mitigation Design

June 3, 2014

OLIN

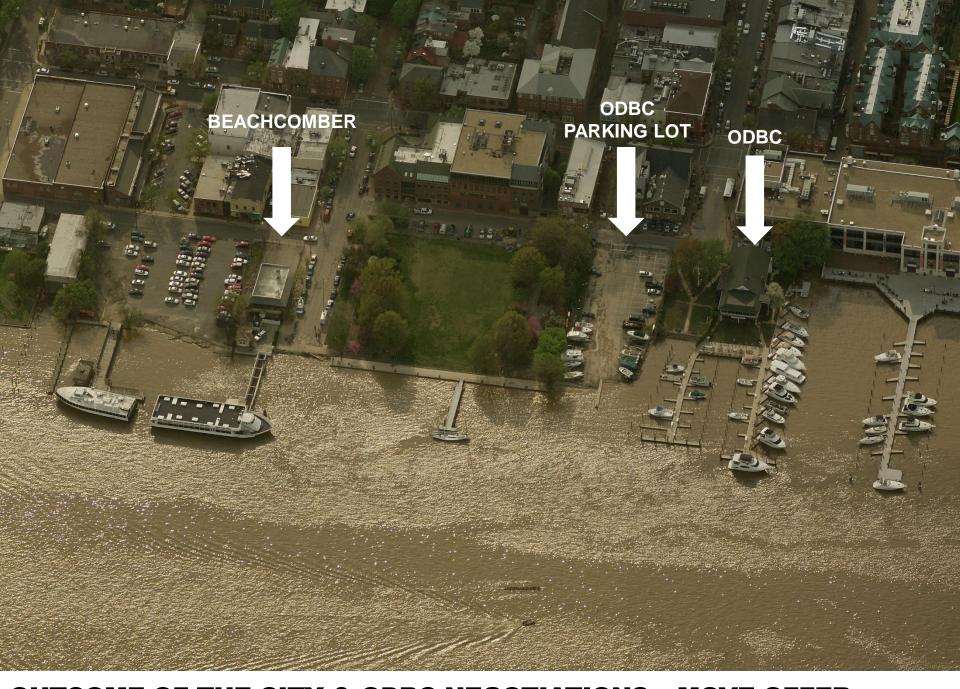
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PROJECT SCHEDULE

- WATERFRONT COMMISSION MEETING
- COMMUNITY MEETING
- WORKSESSION
- PUBLIC HEARING

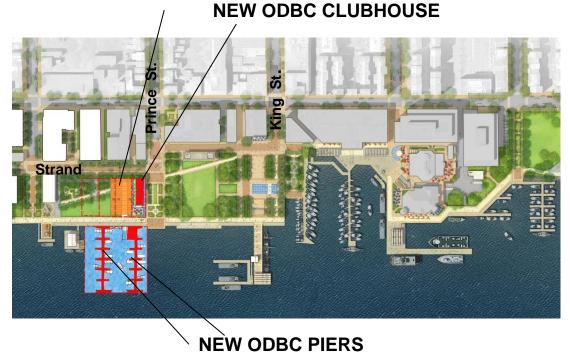






OUTCOME OF THE CITY & ODBC NEGOTIATIONS - MOVE OFFER OLIN

NEW ODBC PARKING LOT 45 SPACES



MOVE OFFER
ILLUSTRATIVE SITE PLAN
developed through City of
Alexandria and Old
Dominion Boat Club
negotiations 3/14/2014



OUTCOME OF THE CITY & ODBC NEGOTIATIONS - MOVE OFFER OLIN



OPEN SPACE

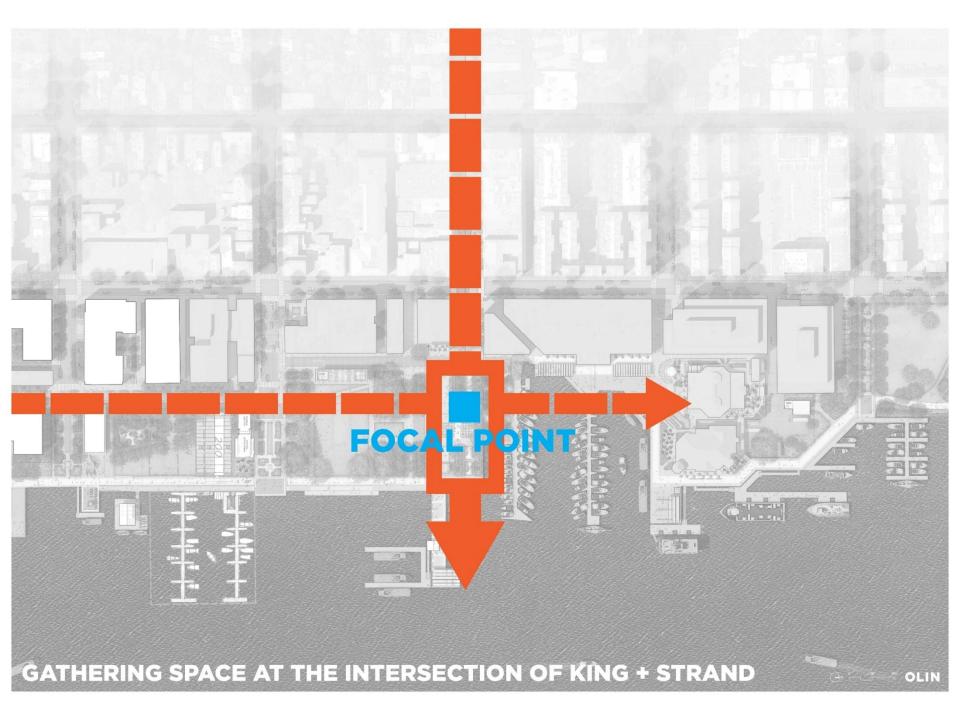
FIGURE GROUND - ALT D

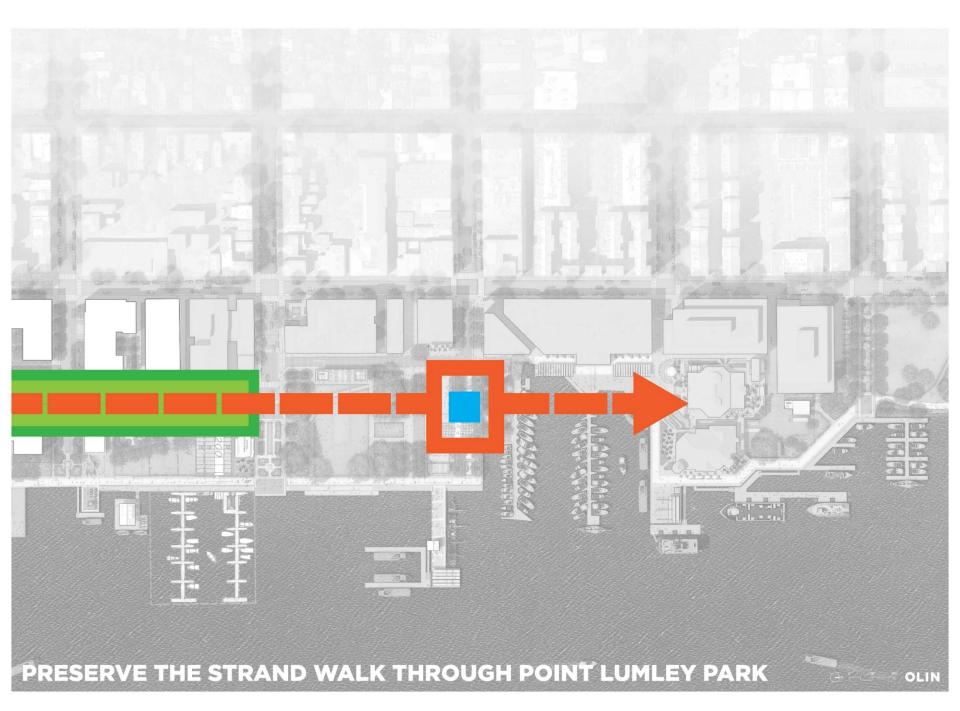
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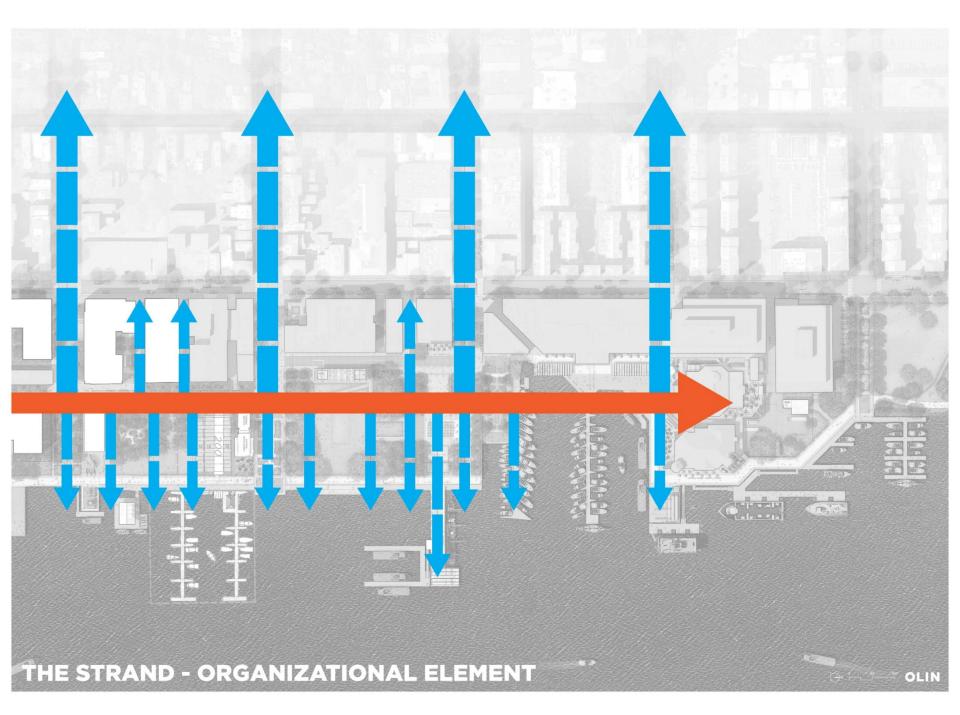


SPATIAL FRAMEWORK - ALT D

OLIN



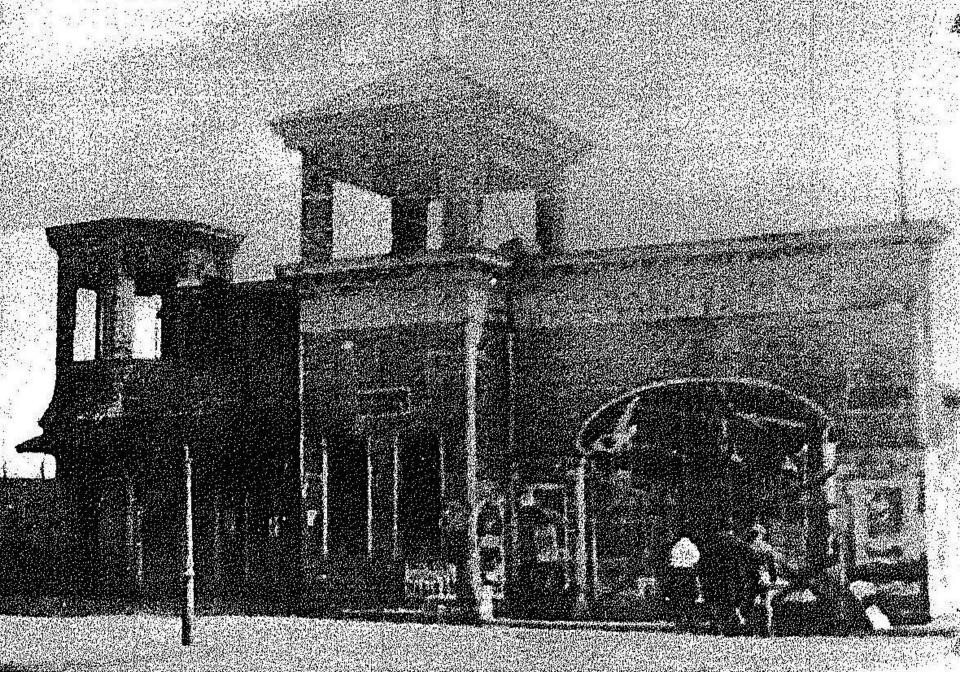








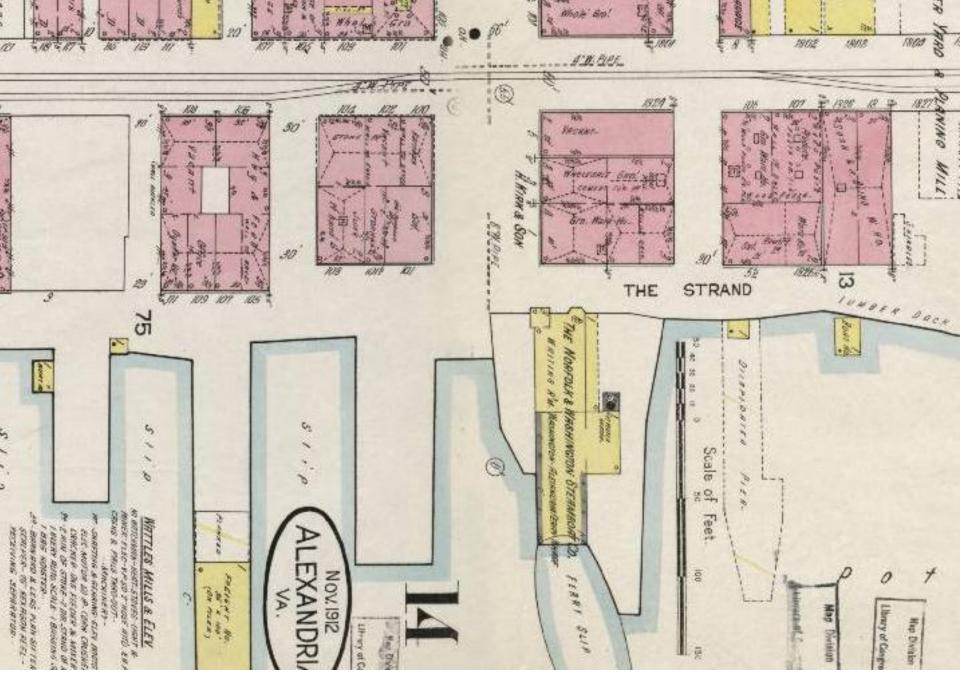
O T O M A C R I V E R



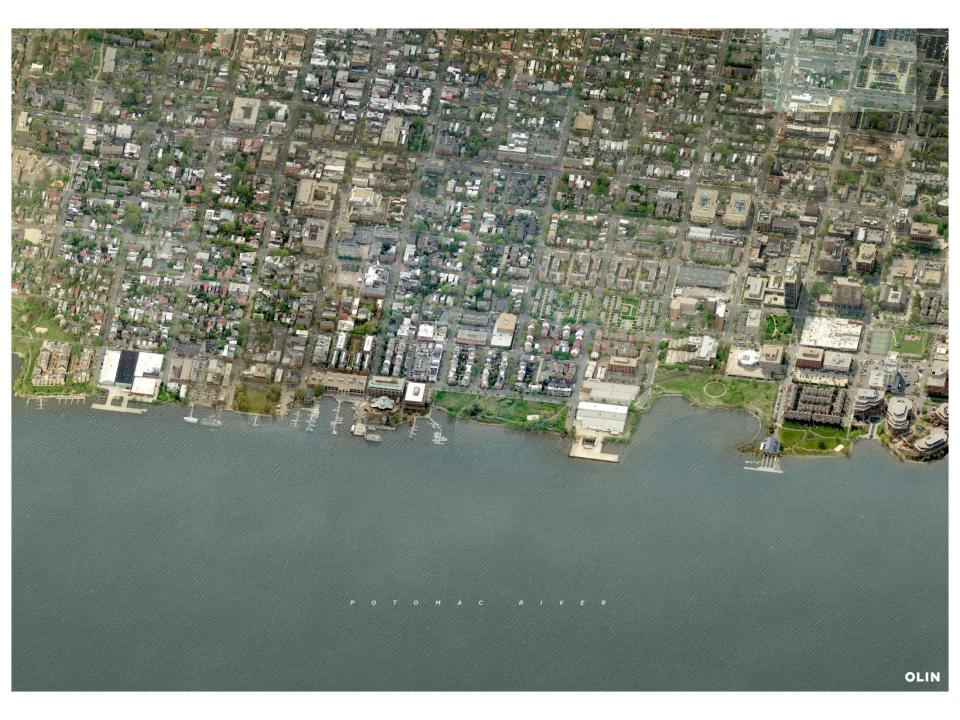
NORFOLK & WASHINGTON STEAMBOAT CO.



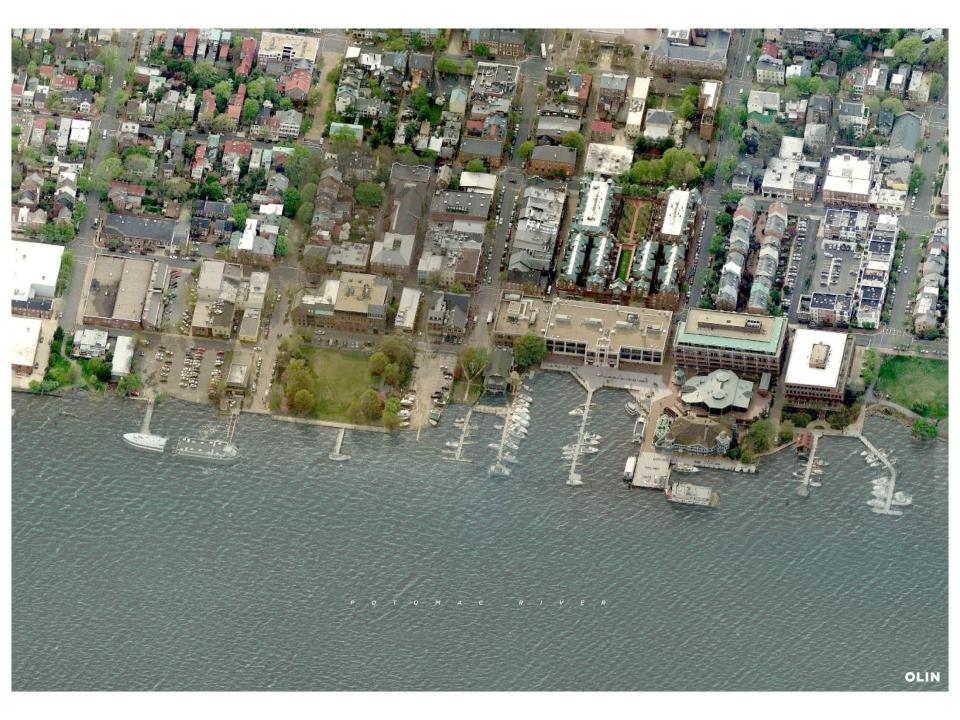
FOOT OF KING STREET









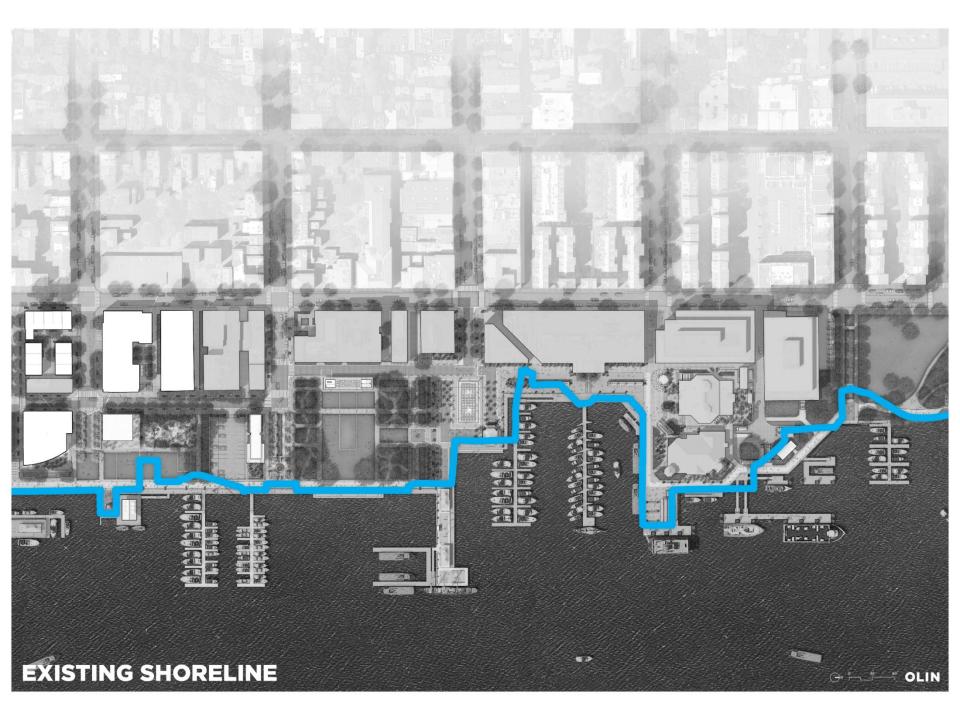


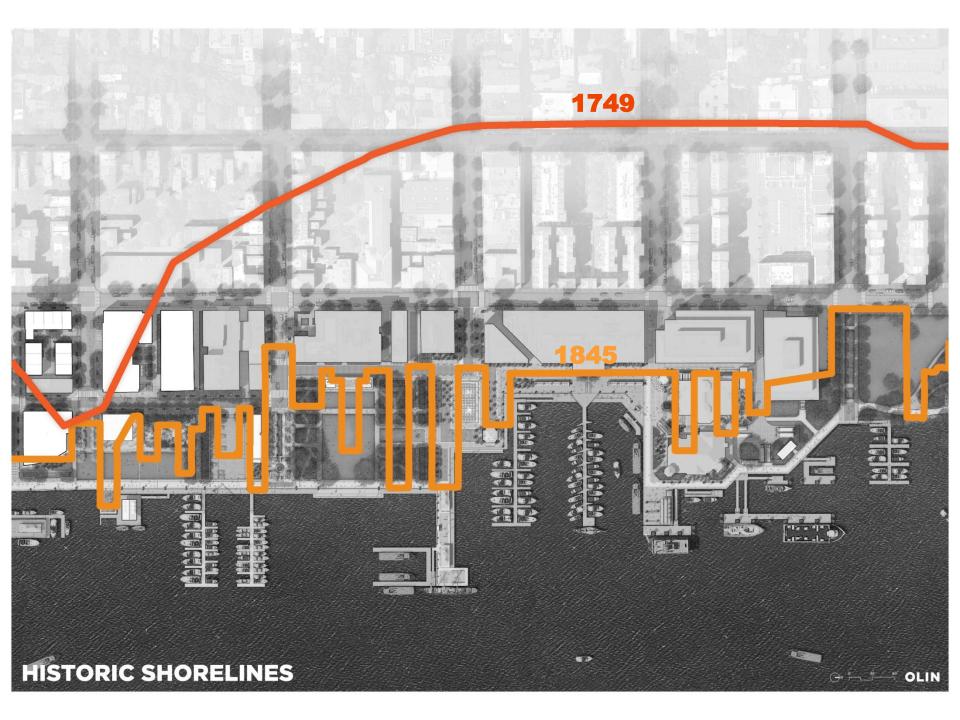


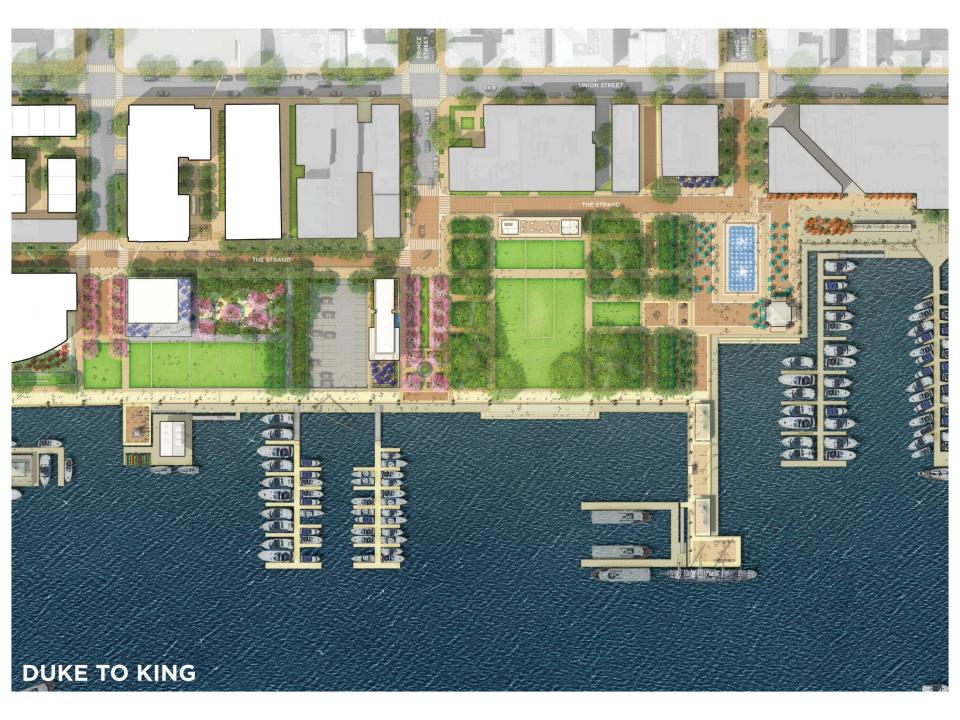




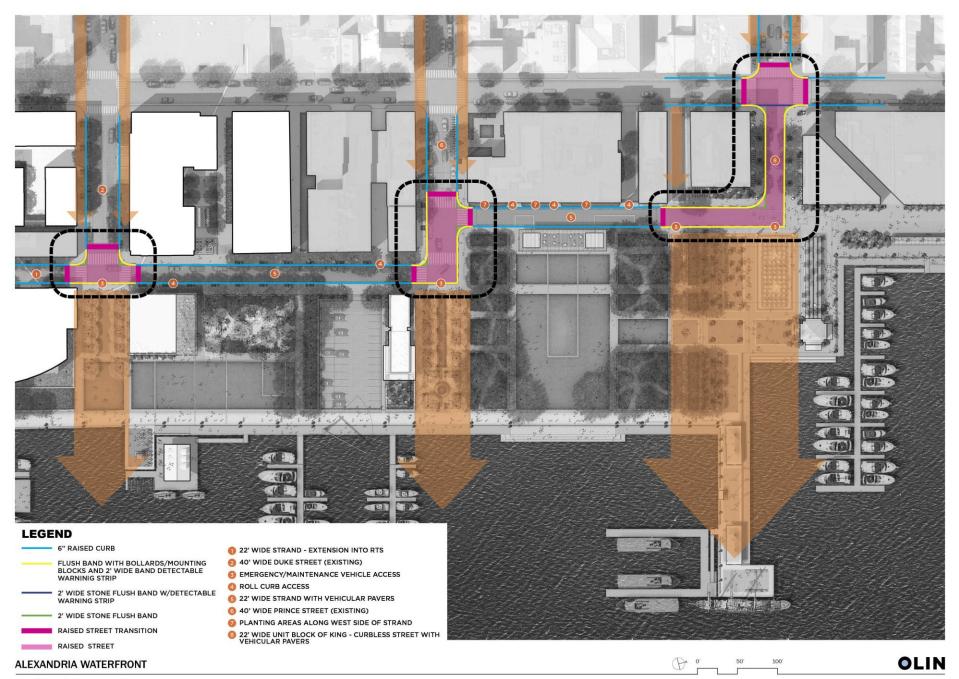


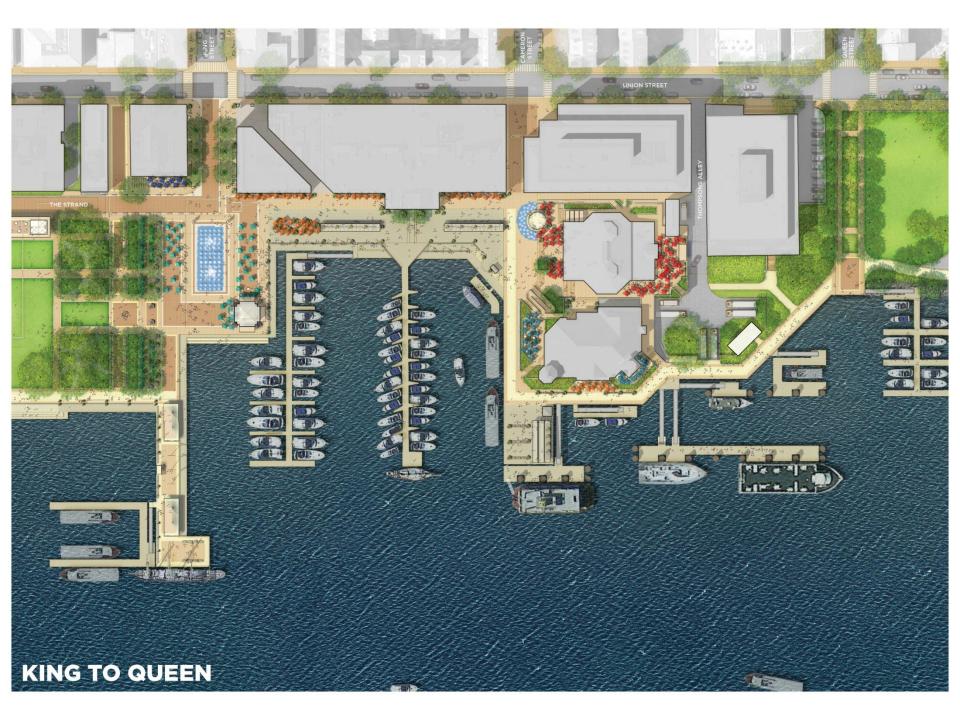


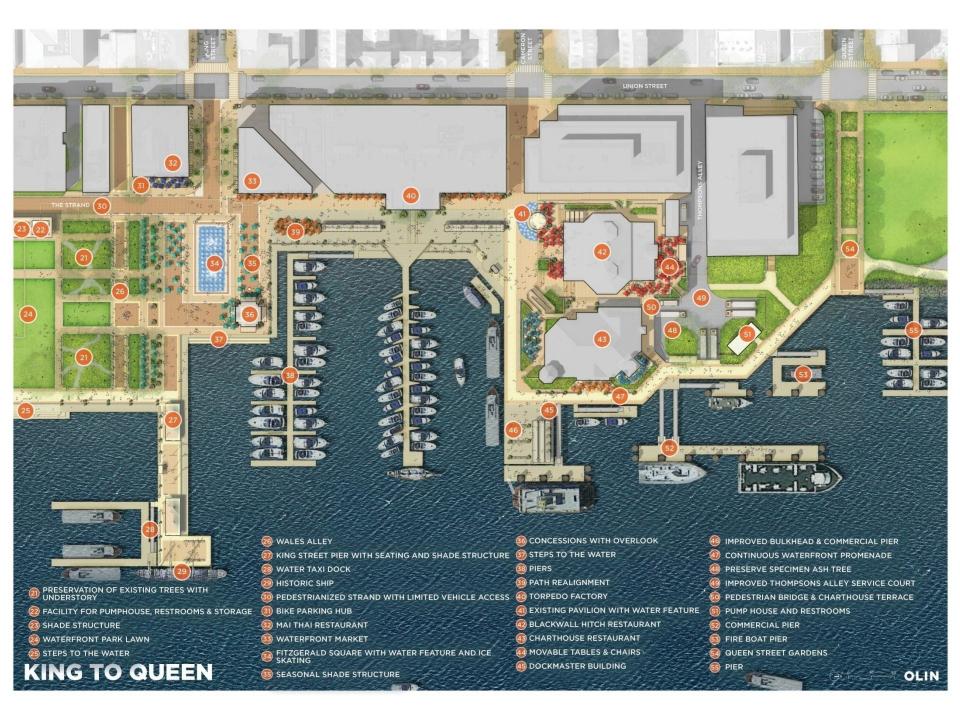






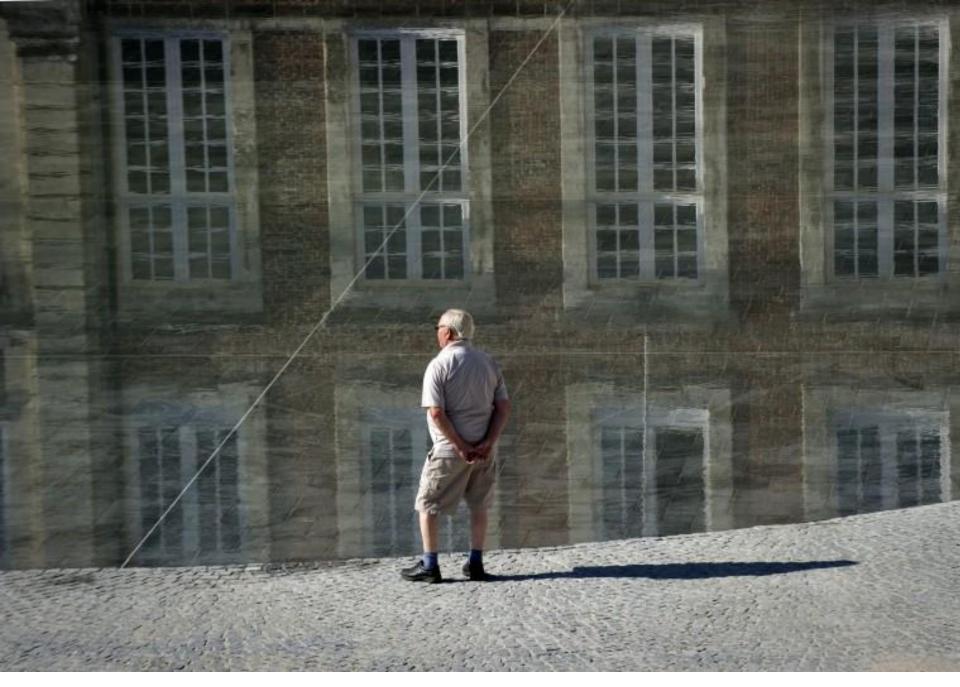








WATER FEATURE - INTERACTIVE



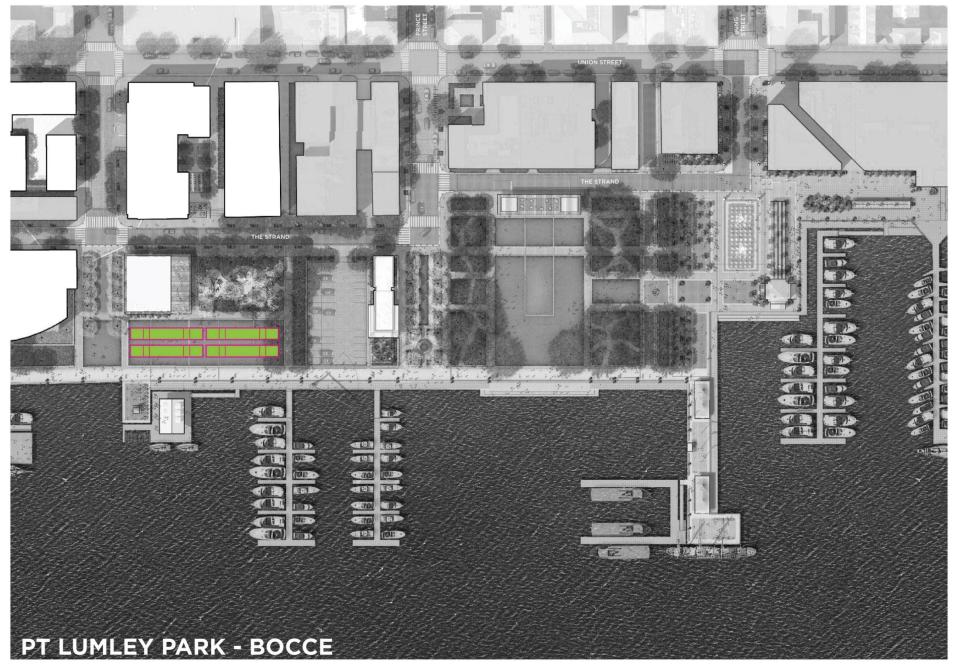
WATER FEATURE - REFLECTIVE

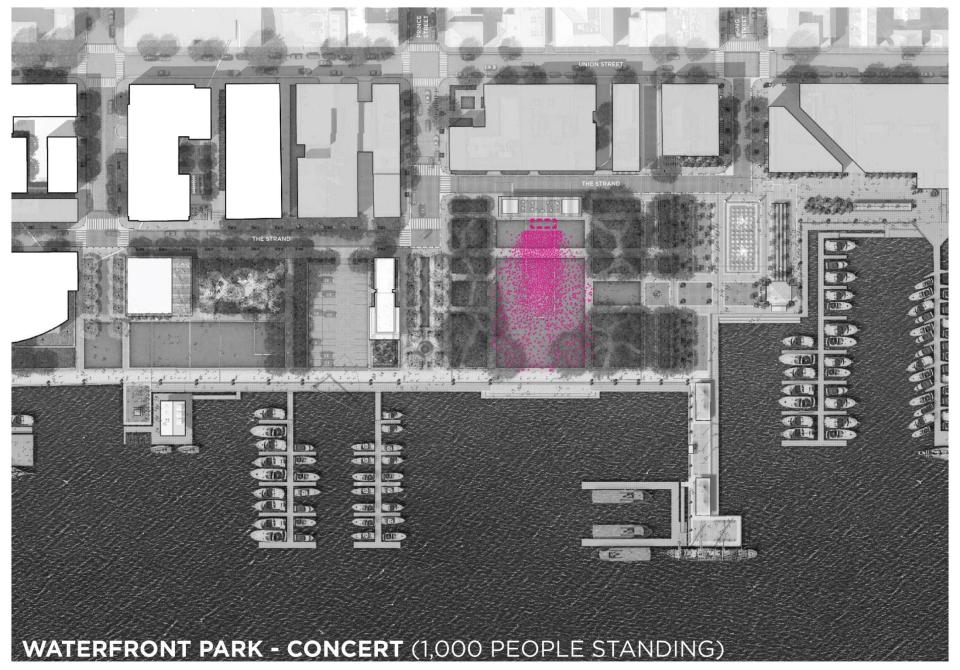


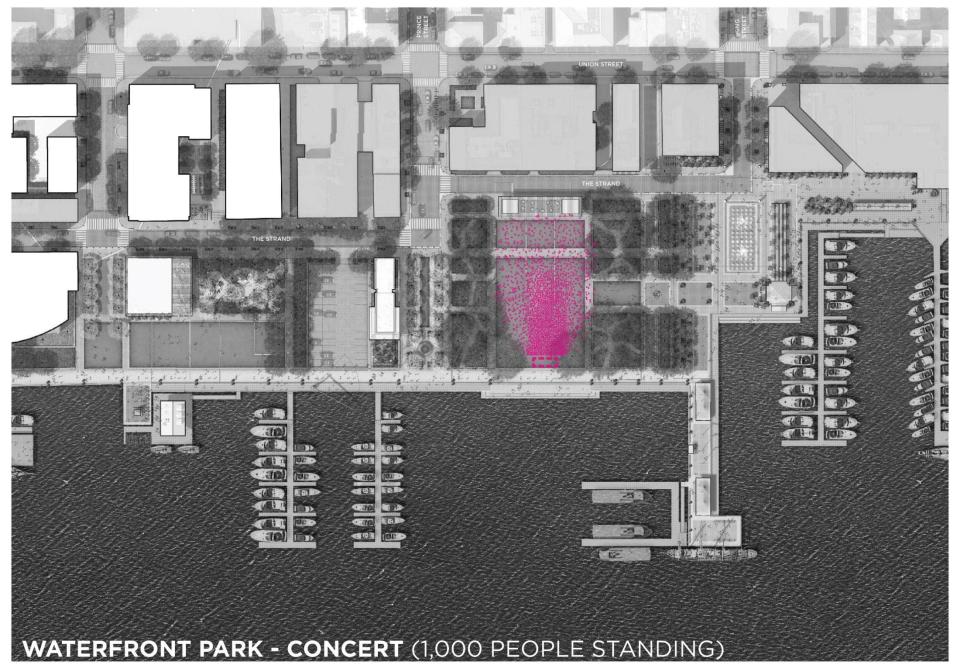


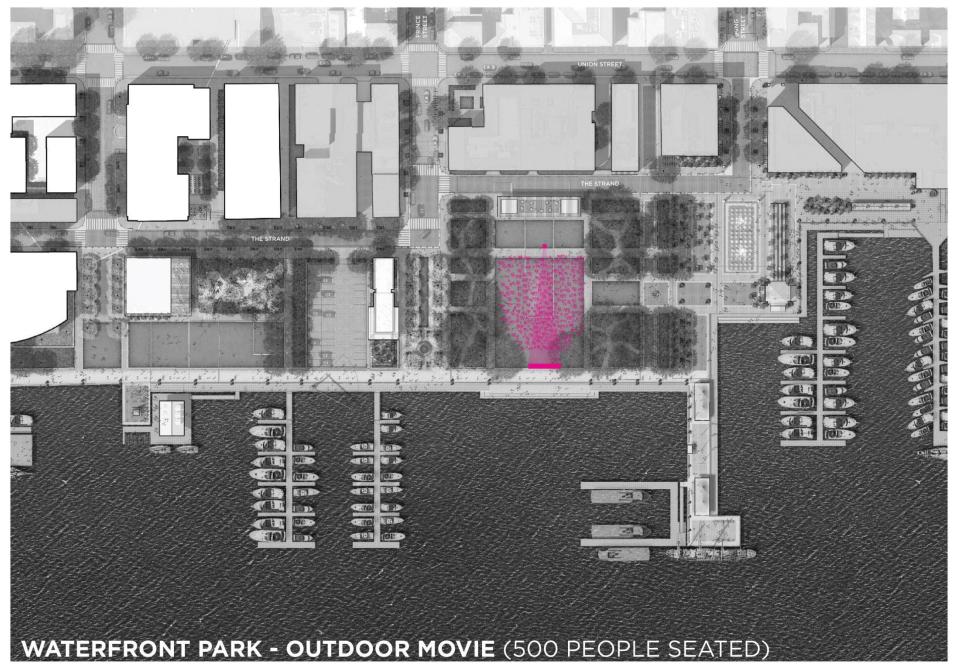




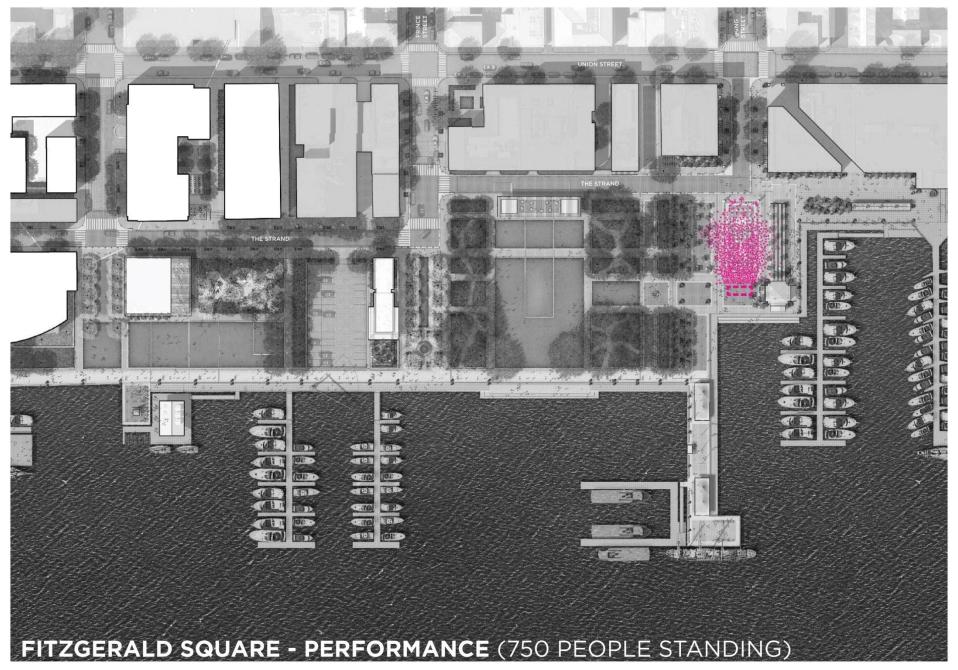


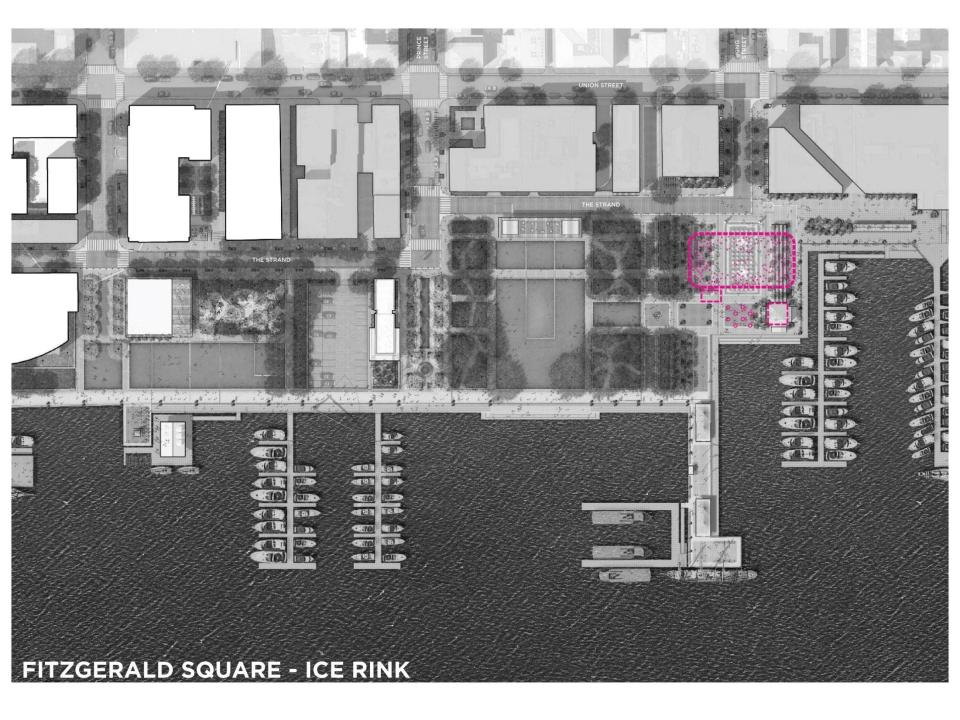


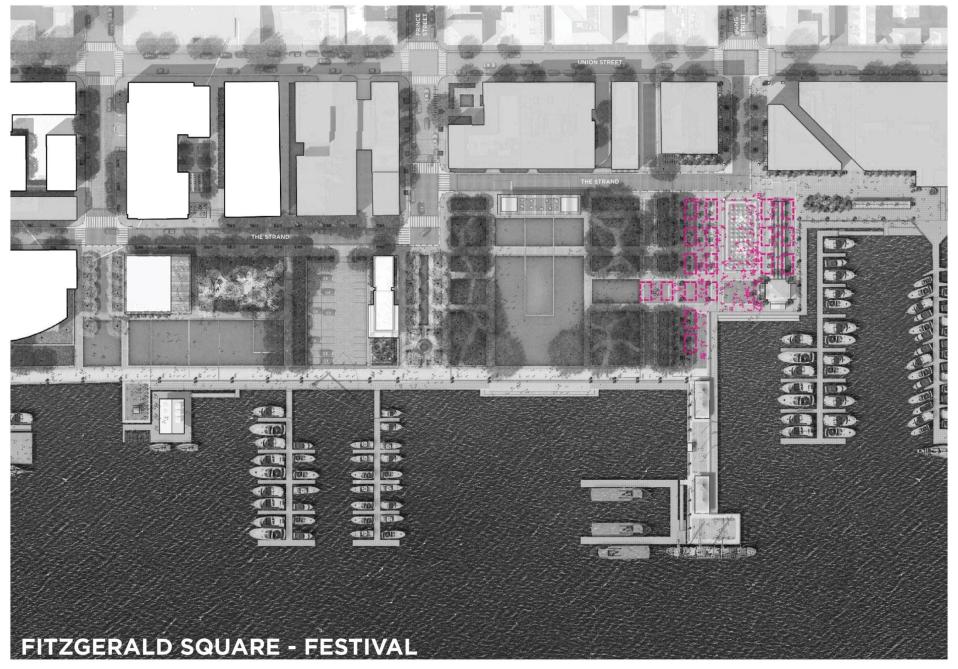


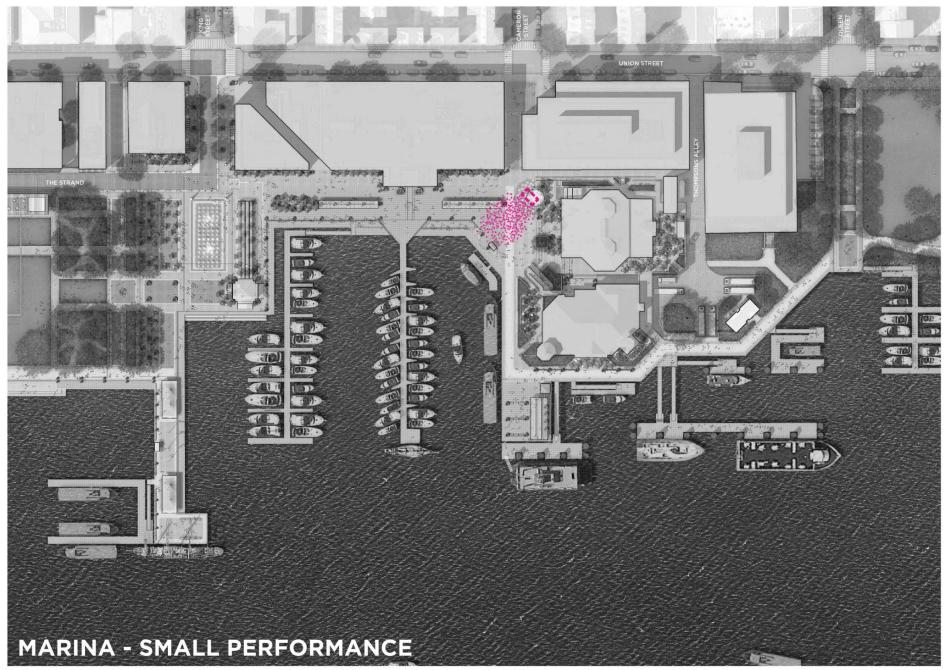


















































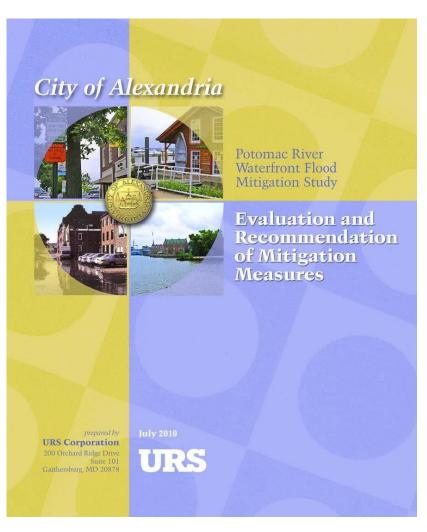




Flood Mitigation

15% Design – Core Area

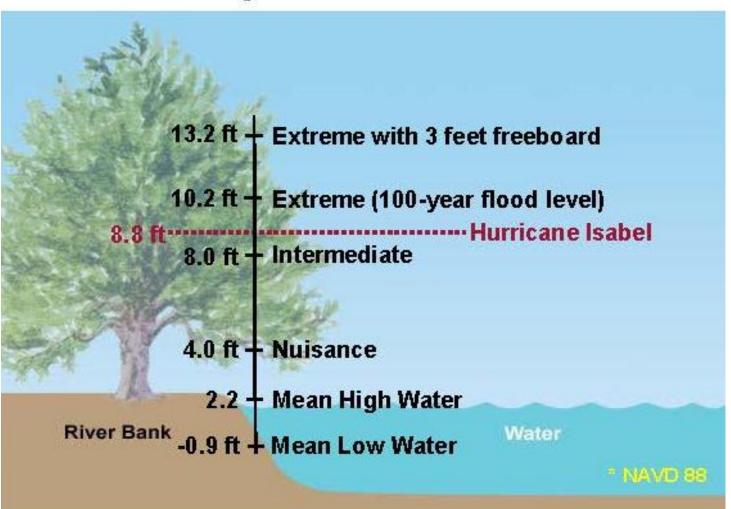
Flood Mitigation Study



- July 2010
- Comprehensive evaluation of flood levels and mitigation
- Protect to Elevation 6.0'
- Elevated walkway concept
- Balances flood mitigation, cost and maintaining views

Flood Levels

Figure 2-2: Flood Levels Studied



EXISTING CONDITIONS-NUISANCE FLOODING AT RIVER ELEVATION = 2.0 FT



EXISTING CONDITIONS-NUISANCE FLOODING AT RIVER ELEVATION = 3.0 FT



EXISTING CONDITIONS-NUISANCE FLOODING AT RIVER ELEVATION = 4.0 FT



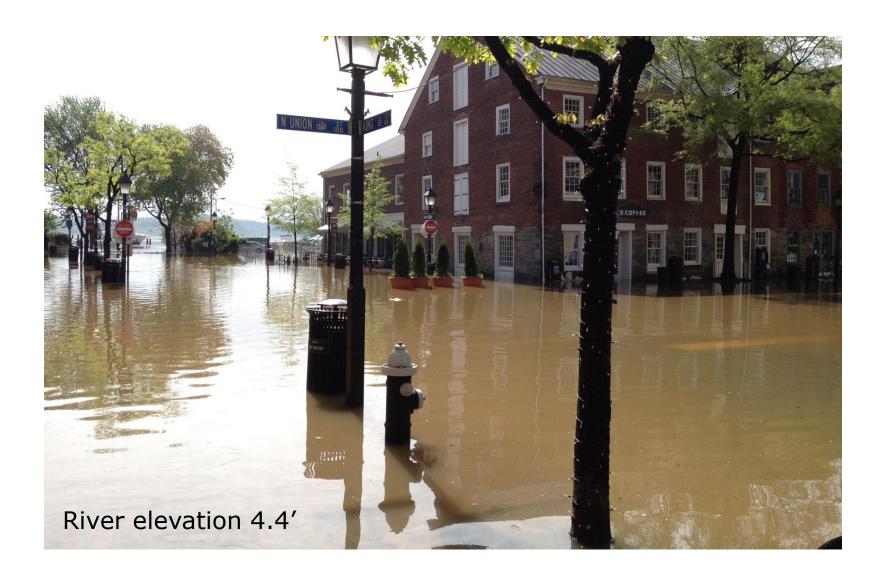
EXISTING CONDITIONS-NUISANCE FLOODING AT RIVER ELEVATION = 5.0 FT



EXISTING CONDITIONS-NUISANCE FLOODING AT RIVER



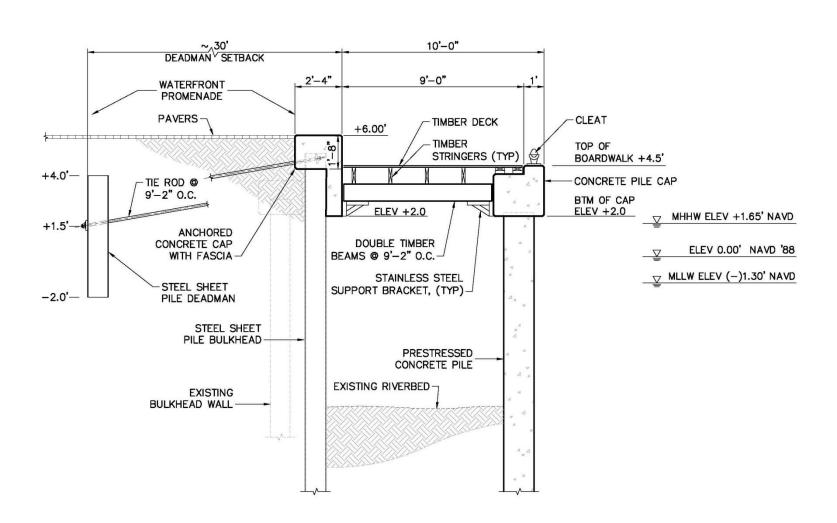
Recent Flooding



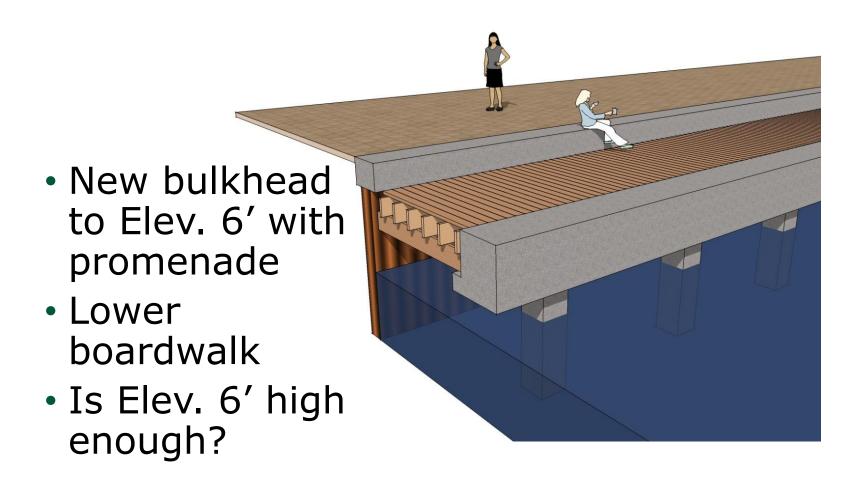
Flood Mitigation

- URS Corporation
- Build upon 2010 study
- Incorporate into Olin Landscape Design
- 15% Design for the core area
- Drainage and infrastructure analyses
- 3 main components
 - Raised bulkhead
 - Pump stations (2)
 - Separated storm sewer system

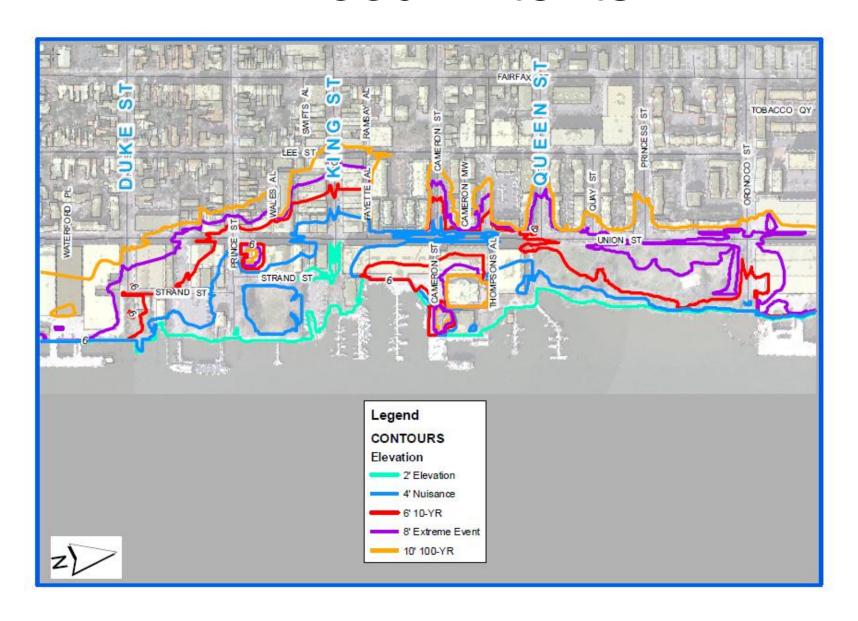
Bulkhead Detail



Bulkhead/Promenade

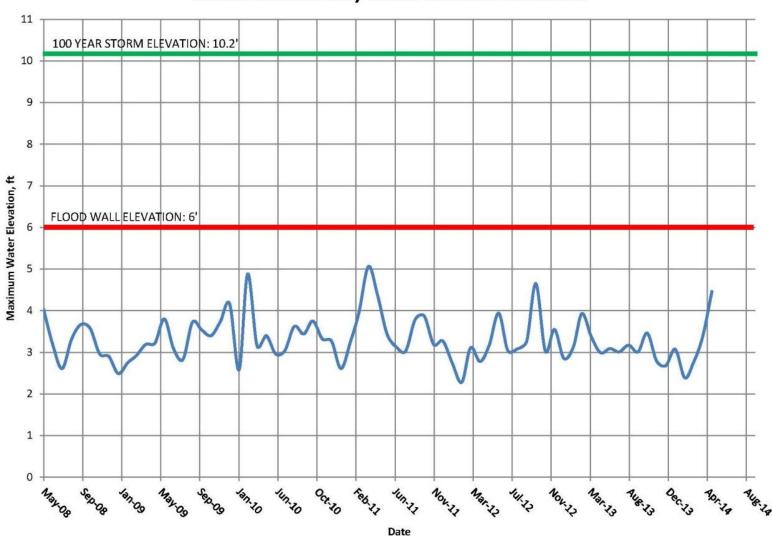


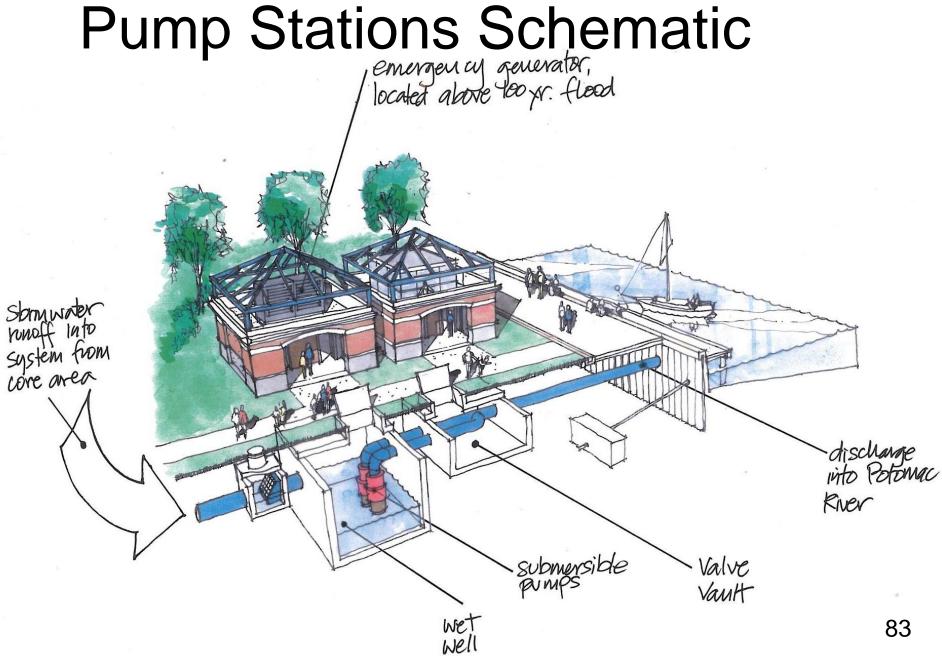
Flood Extents



USGS Tide Gage

Maximum Monthly Water Surface Elevations















RIVERGATE PARK - EXISTING



RIVERGATE PARK - PROPOSED









ORONOCO BAY PARK - EXISTING



ORONOCO BAY PARK - PROPOSED



ORONOCO BAY PARK - EXISTING



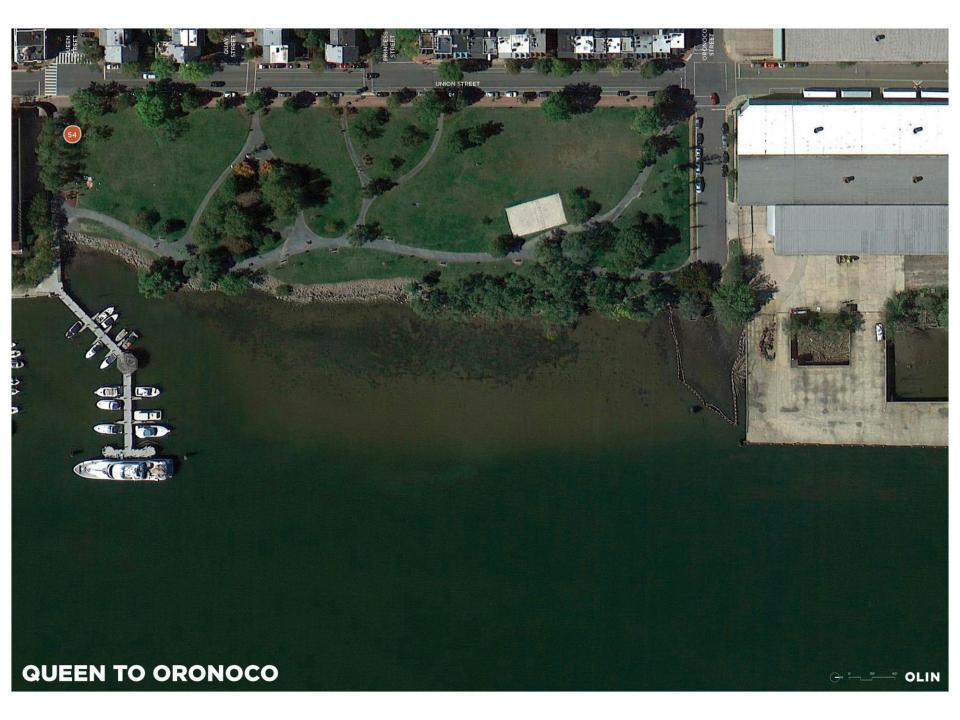
ORONOCO BAY PARK - PROPOSED



RALPH'S GUT - EXISTING



RALPH'S GUT - PROPOSED









FOUNDERS PARK - EXISTING



FOUNDERS PARK - PROPOSED





	SOCIAL •Quality of the space •Opportunities for interaction •Financial	MATERIALS •Durability / Maintenance •Local •Responsible production	HABITAT ENHANCEMENT THROUGH PLANTING •Native / Adaptive •Biodiversity •Low maintenance	ENERGY •Renewable Solar •Urban heat island mitigation •Efficient Lighting	WATER •Quality •Stormwater Management •Potential for Reuse
WILKES - DUKE					
DUKE - KING					
KING - QUEEN					
QUEEN - ORONOCO					
PENDLETON - MADISON					
MADISON - MONTGOMERY					







LOW POTENTIAL

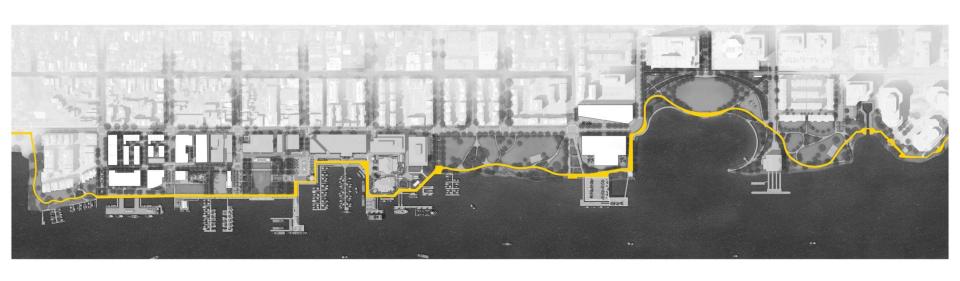


WASHINGTON CANAL PARK: WASHINGTON, DC

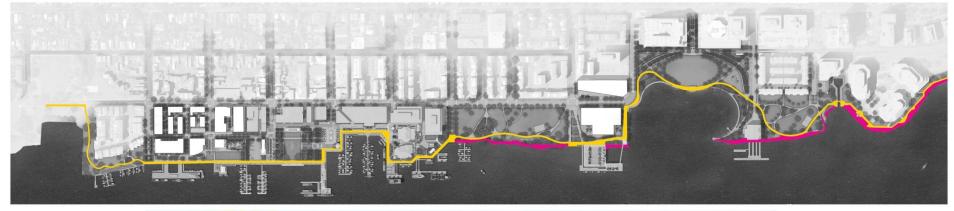


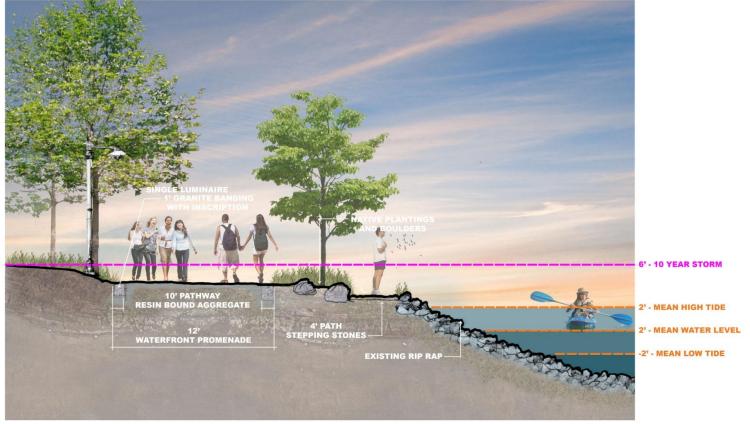
WASHINGTON CANAL PARK / Washington DC



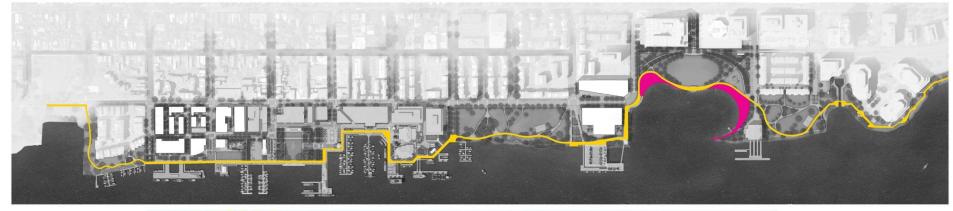


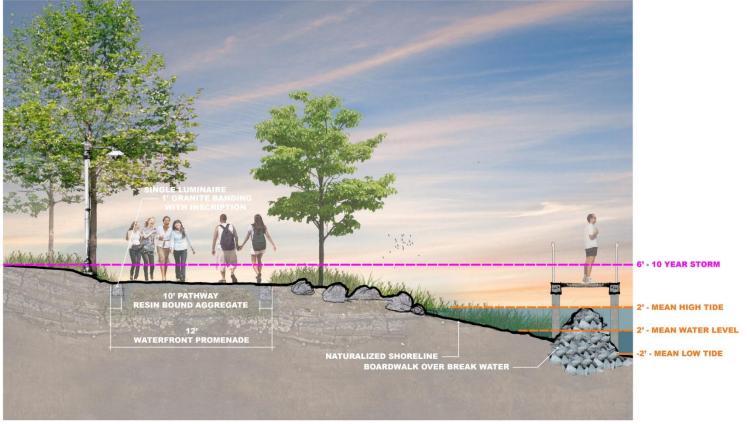
CONTINUOUS WATERFRONT PATH



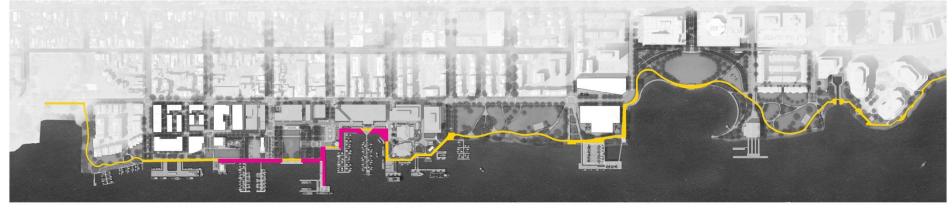


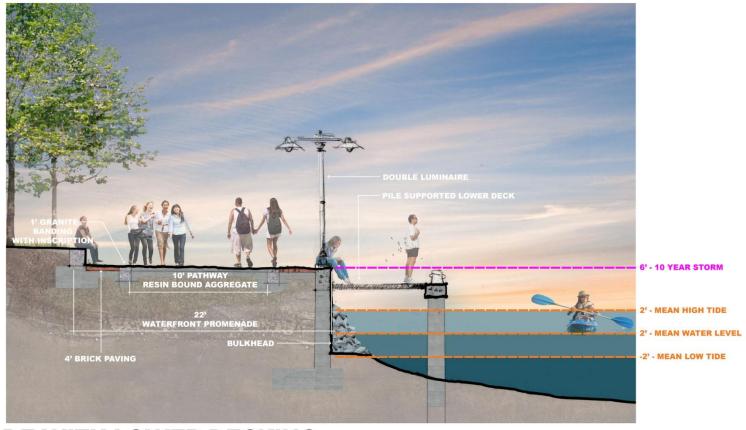
CONTINUOUS PATH WITH STEPPING STONE PATH ABOVE RIPRAP



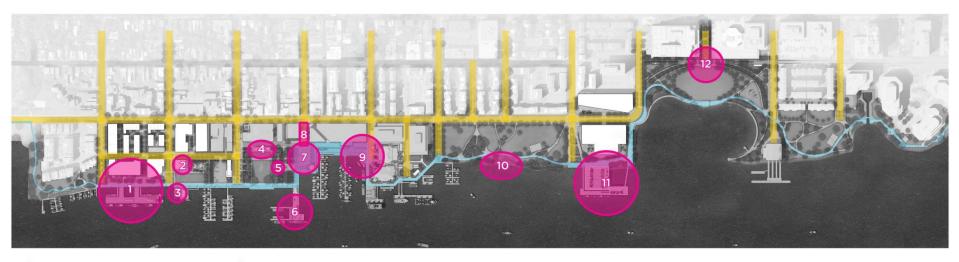


CONTINUOUS PATH WITH BOARDWALK OVER BREAKWATER





PROMENADE WITH LOWER DECKING

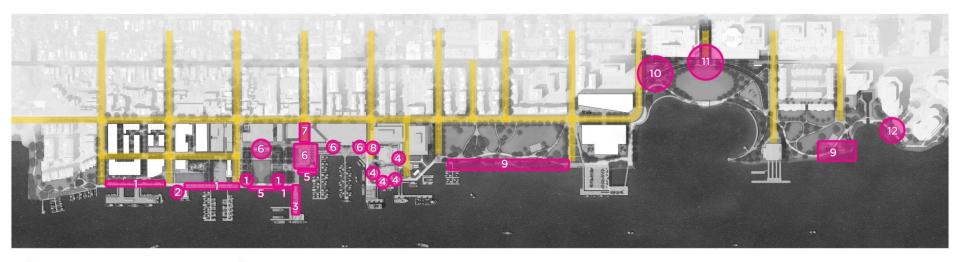


- 1 RTS PIER
- 2 CIVIC BUILDING PLAZA
- **3** POINT LUMLEY PIER
- 4 WATERFRONT PARK PLAZA
- 5 TRANSITIONAL PLAZA
- 6 KING STREET PIER
- 7 FITZGERALD SQUARE
- **8** KING STREET UNIT BLOCK

- 9 CITY MARINA / TORPEDO PLAZA
- **10** BOULDER STEPPING STONES
- 11 RTN PIER
- 12 WYTHE STREET PLAZA



MATERIALS



- 1 GRANITE SEAT WALL
- 2 LOUNGE CHAIRS
- 3 GLIDER SEATING
- 4 ROOFTOP OUTDOOR DINING
- **5** WATERFRONT STEPS
- 6 FLEXIBLE SEATING
- 7 MOUNTING BLOCKS
-
- **8** STEPPED SEATING AT FOUNTAIN

- 9 BOULDER STEPS
- **10 PICNIC TABLES**
- 11 ADIRONDACK LOUNGE CHAIRS
- 12 PROMENADE CLASSIQUE

COMMON ELEMENTS - FURNISHINGS













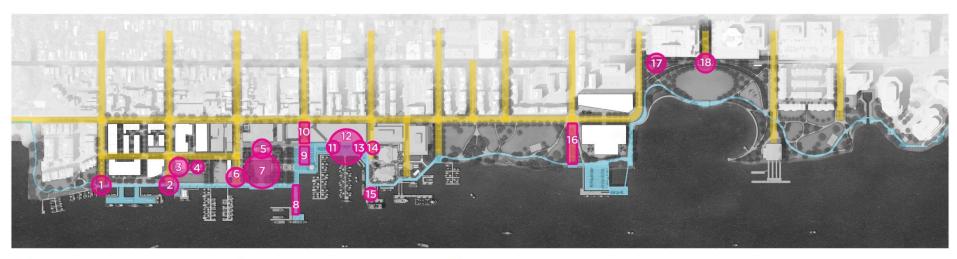






FURNISHINGS

OLIN

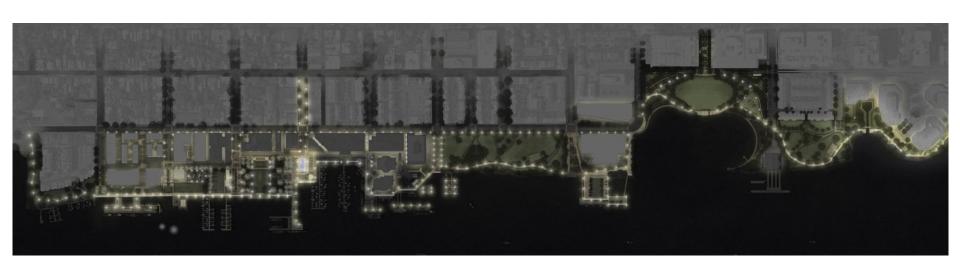


- 1 WOLFE STREET END CATENARY LIGHTING
- 2 DUKE STREET END CATENARY LIGHTING
- 3 CIVIC BUILDING LIGHTING
- 4 PLAY AREA WHIMSICAL BOLLARD LIGHTS
- **5** TRELLIS UPLIGHTING
- **6** PRINCE STREET END CATENARY LIGHTING
- 7 WATERFRONT PARK MOONLIGHTING
- 8 SHADE STRUCTURE LIGHTING

- 9 FOUNTAIN LIGHTING
- 10 TREE LIGHTING
- 11 SHADE STRUCTURE LIGHTING
- 12 TORPEDO FACTORY LIGHTING
- 13 SHADE STRUCTURE LIGHTING
- 14 GAZEBO FOUNTAIN LIGHTING
- 15 SHADE STRUCTURE LIGHTING
- 16 ORONOCO STREET END CATENARY LIGHTING

- 17 BOX CAR THEATER
- 18 WYTHE STREET PLAZA LIGHTING

LIGHTING – WATERFRONT ROOMS



















LIGHTING

